



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

WILLIAM D. HITZ

CASE NO.: BB1077USDIV

APPLICATION NO.: 10/718952

CONFIRMATION NO.: 4183

GROUP ART UNIT: 1638

EXAMINER: MEDINA IBRAHIM

FILED: November 21, 2003

FOR: SOYBEAN PLANT PRODUCING SEEDS WITH REDUCED LEVELS OF
RAFFINOSE SACCHARIDES AND PHYTIC ACID

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. A copy of the information, if required, is also enclosed. Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(c): after the period specified in §1.97(b) but before the mailing of a Final Office Action, or a Notice of Allowance, or any other action that closes prosecution.

The PTO is authorized to charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. **04-1928** (E. I. du Pont de Nemours and Company) in order to complete the requirements for consideration of this Information Disclosure Statement.

Respectfully submitted,

LYNNE M. CHRISTENBURY

Attorney for Applicants

Registration No.: 30,971

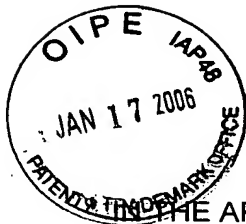
Telephone: (302) 992-5481

Facsimile: (302) 892-1026

01/18/2006 MBLAND 00000001 041928 10718952

01 FC:1806 180.00 DA

Dated: January 12, 2006



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE APPLICATION OF:

WILLIAM D. HITZ

CASE NO.: BB1077USDIV

APPLICATION NO.: 10/718952

CONFIRMATION NO.: 4183

GROUP ART UNIT: 1638

EXAMINER: MEDINA AHMED IBRAHIM

FILED: November 21, 2003

FOR: SOYBEAN PLANT PRODUCING SEEDS WITH REDUCED LEVELS OF
RAFFINOSE SACCHARIDES AND PHYTIC ACID

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. A copy of the information, if required, is also enclosed. Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(c): after the period specified in §1.97(b) but before the mailing of a Final Office Action, or a Notice of Allowance, or any other action that closes prosecution.

The PTO is authorized to charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. **04-1928** (E. I. du Pont de Nemours and Company) in order to complete the requirements for consideration of this Information Disclosure Statement.

Respectfully submitted,

LYNNE M. CHRISTENBURY

Attorney for Applicants

Registration No.: 30,971

Telephone: (302) 992-5481

Facsimile: (302) 892-1026

Dated:

January 12, 2006



PTO/SB/08B (07-05)

Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Sheet 1 of 1	Complete if Known	
	Application Number	10/718952
	Filing Date	November 21, 2003
	First Named Inventor	WILLIAM D. HITZ
	Group Art Unit	1638
	Examiner Name	MEDINA AHMED IBRAHIM
Attorney Docket Number		BB1077USDIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ARUN LAHIRI MAJUMDER ET AL., 1L-myo-Inositol-1-phosphate synthase, Biochimica et Biophysica Acta, 1348:245-256, 1997	<input type="checkbox"/>
		ARUN LAHIRI MAJUMDER ET AL., Diversification and evolution of L-myo-inositol 1-phosphate synthase ¹ , FEBS Letters, 553:2-10, 2003	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (07-05)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

AMENDED

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/718952
Filing Date	November 21, 2003
First Named Inventor	WILLIAM D. HITZ
Group Art Unit	1638
Examiner Name	M. IBRAHIM
Attorney Docket Number	BB1077USDIV

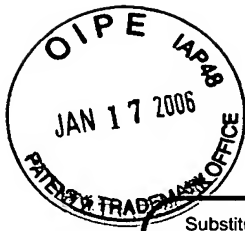
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	JOHN ERDMAN ET AL., SOY PROTEIN PRODUCTS, *CHARACTERISTICS, NUTRITIONAL ASPECTS AND UTILIZATION, SOY PROTEIN COUNCIL, PP. 1-43, 1987	<input type="checkbox"/>
	2	P.M. DEY, D-GALACTOSE-CONTAINING OLIGOSACCHARIDES, DEPARTMENT OF BIOCHEMISTRY, CHAPTER 2, PP. 53-129, 1985	<input type="checkbox"/>
	3	ROBERT CUMMINGS ET AL., UNITED STATES DEPARTMENT OF AGRICULTURE, OIL CROPS-SITUATION AND OUTLOOK REPORT, PP. 1-43, 1989	<input type="checkbox"/>
	4	CRAIG COON ET AL., SOYBEAN UTILIZATION ALTERNATIVES-UNIVERSITY OF MINNESOTA, THE EFFECT OF OLIGOSACCHARIDES ON THE NUTRITIVE VALUE OF SOYBEAN MEAL, PP. 203-211, 1988	<input type="checkbox"/>
	5	N. R. REDDY ET AL., FLATULENCE IN RATS FOLLOWING INGESTION OF COOKED AND GERMINATED BLACK GRAM AND A FERMENTED PRODUCT OF BLACK GRAM AND RICE BLEND, JOURNAL OF FOOD SCIENCE, PP. 1161-1164, 1980	<input type="checkbox"/>
	6	L. M. POTTER ET AL., DIGESTIBILITY OF THE CARBOHYDRATE FRACTION OF SOYBEAN MEAL BY POULTRY, WORLD SOYBEAN RESEARCH CONFERENCE III, PP. 218-224, 1984	<input type="checkbox"/>
	7	EDWIN L. MURPHY ET AL., FRACTIONATION OF DRY BEAN EXTRACTS WHICH INCREASE CARBON DIOXIDE EGESTION IN HUMAN FLATUS, J. AGR. FOOD CHEM., VOL. 20(4):813-817, 1972	<input type="checkbox"/>
	8	H. RUTLOFF ET AL., DIE INTESTINAL-ENZYMATISCHE SPALTUNG VON GALAKTO-OLIGOSACCHARIDEN IM DARM VON TIER UND MENSCH MIT BESONDERER BERUECKSICHTIGUNG VON LACTOBACILLUS BIFIDUS 2. MITT. ZUM INTESTINALEN VERHALTEN DER LACTULOSE, DIE NAHRUNG II, PP. 39-46, 1967	<input type="checkbox"/>
	9	RICHARD GITZEL MANN ET AL., THE HANDLING OF SOYA ALPHA-GALACTOSIDES BY A NORMAL AND GALACTOSEMIC CHILD, PEDIATRICS, VOL. 36(2):231-235, 8/1965	<input type="checkbox"/>
	10	JEFF J. DOYLE ET AL., THE GLYCOSYLATED SEED STORAGE PROTEINS OF GLYCINE MAX AND PHASEOLUS VULGARIS, THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 261(20):9228-9238, 1986	<input type="checkbox"/>
	11	JERRY L. SLIGHTOM ET AL., COMPLETE NUCLEOTIDE SEQUENCE OF A FRENCH BEAN STORAGE PROTEIN GENE: PHASEOLIN, PROC. NATL. ACAD. SCI., VOL. 80:1897-1901, 4/1983	<input type="checkbox"/>

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (07-05)

Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control numberSubstitute for form 1449A/PTO
AMENDED**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	10/718952
Filing Date	November 21, 2003
First Named Inventor	WILLIAM D. HITZ
Group Art Unit	1638
Examiner Name	M. IBRAHIM
Attorney Docket Number	BB1077USDIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	12	V. RABOY ET AL., VARIATION IN SEED TOTAL PHOSPHORUS, PHYTIC ACID, ZINC, CALCIUM, MAGNESIUM, AND PROTEIN AMONG LINES OF GLYCINE MAX AND G. SOJA1, CROP SCIENCE, VOL. 24(3):431-434, 1984	<input type="checkbox"/>
	13	JAN PEN ET AL., PHYTASE-CONTAINING TRANSGENIC SEEDS AS A NOVEL FEED ADDITIVE FOR IMPROVED PHOSPHORUS UTILIZATION, BIO/TECHNOLOGY, VOL. 11:811-814, 7/11/1993	<input type="checkbox"/>
	14	R. N. BEACHY ET AL., ACCUMULATION AND ASSEMBLY OF SOYBEAN BETA-CONGLYCININ IN SEEDS OF TRANSFORMED PETUNIA PLANTS, THE EMBO JOURNAL, VOL. 4(12):3047-3053, 1985	<input type="checkbox"/>
	15	CHAMPA SENGUPTA-GOPALAN ET AL., DEVELOPMENTALLY REGULATED EXPRESSION OF THE BEAN BETA-PHASEOLIN GENE IN TOBACCO SEED, PROC. NATL. ACAD. SCI., VOL. 82:3320-3324, 5/1985	<input type="checkbox"/>
	16	MARGARET DEAN JOHNSON, THE ARABIDOPSIS THALIANA MYO-INOSITOL 1-PHOSPHATE SYNTHASE (EC 5.5.1.4)1, PLANT GENE REGISTER, PLANT PHYSIOL., VOL. 105:1023-1024, 1994	<input type="checkbox"/>
	17	K. DIANE JOFUKU ET AL., KUNITZ TRYPSIN INHIBITOR GENES ARE DIFFERENTIALLY EXPRESSED DURING THE SOYBEAN LIFE CYCLE AND IN TRANSFORMED TOBACCO PLANTS, THE PLANT CELL, VOL. 1:1079-1093, 11/1989	<input type="checkbox"/>
	18	K. DIANE JOFUKU ET AL., A FRAMESHIFT MUTATION PREVENTS KUNITZ TRYPSIN INHIBITOR MRNA ACCUMULATION IN SOYBEAN EMBRYOS, THE PLANT CELL, VOL. 1:427-435, 4/1989	<input type="checkbox"/>
	19	VICTOR RABOY, 5. BIOCHEMISTRY AND GENETICS OF PHYTIC ACID SYNTHESIS, INOSITOL METABOLISM IN PLANTS, PP. 55-76, 1990	<input type="checkbox"/>
	20	M. R. SPIVEY FOX ET AL., ANTINUTRITIVE EFFECTS OF PHYTATE AND OTHER PHOSPHORYLATED DERIVATIVES, NUTRITIONAL TOXICOLOGY, VOL. III:59-96, 1989	<input type="checkbox"/>
	21	MANABU ISHITANI ET AL., COORDINATE TRANSCRIPTIONAL INDUCTION OF MYO-INOSITOL METABOLISM DURING ENVIRONMENTAL STRESS, THE PLANT JOURNAL, VOL. 9(4):537-548, 1996	<input type="checkbox"/>
	22	E. CRISTOFARO ET AL., INVOLVEMENT OF THE RAFFINOSE FAMILY OF OLIGOSACCHARIDES IN FLATULENCE, SUGARS IN NUTRITION, CHAPTER 20, PP. 313-335, 1974	<input type="checkbox"/>

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (07-05)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO
AMENDED**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	10/718952
Filing Date	November 21, 2003
First Named Inventor	WILLIAM D. HITZ
Group Art Unit	1638
Examiner Name	M. IBRAHIM
Attorney Docket Number	BB1077USDIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	23	Z. MROZ ET AL., APPARENT DIGESTIBILITY AND RETENTION OF NUTRIENTS BOUND TO PHYTATE COMPLEXES AS INFLUENCED BY MICROBIAL PHYTASE AND FEEDING REGIMEN IN PIGS, JOURNAL OF ANIMAL SCIENCE, VOL. 72:126-132, 1994	<input type="checkbox"/>
	24	FRANK A. LOEWUS, 2. INOSITOL BIOSYNTHESIS, INOSITOL METABOLISM IN PLANTS, PP. 13-19, 1990	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.